Luca Mariot

List of Publications by Year
in descending order

43 papers	483 citations	933447 10 h-index	888059 17 g-index
46 all docs	46 docs citations	46 times ranked	120 citing authors

#	Article	IF	Citations
1	Salp Swarm Optimization: A critical review. Expert Systems With Applications, 2022, 189, 116029.	7.6	38
2	On the Difficulty of Evolving Permutation Codes. Lecture Notes in Computer Science, 2022, , 141-156.	1.3	2
3	The Effect of Multi-Generational Selection in Geometric Semantic Genetic Programming. Applied Sciences (Switzerland), 2022, 12, 4836.	2.5	0
4	Heuristic search of (semi-)bent functions based on cellular automata. Natural Computing, 2022, 21, 377-391.	3.0	5
5	Evolutionary algorithms for designing reversible cellular automata. Genetic Programming and Evolvable Machines, 2021, 22, 429-461.	2.2	3
6	Hip to Be (Latin) Square: Maximal Period Sequences from Orthogonal Cellular Automata. , 2021, , .		4
7	Tip the Balance: Improving Exploration of Balanced Crossover Operators by Adaptive Bias. , 2021, , .		4
8	Mutually orthogonal latin squares based on cellular automata. Designs, Codes, and Cryptography, 2020, 88, 391-411.	1.6	18
9	The Fifth International Students' Olympiad in cryptography—NSUCRYPTO: Problems and their solutions. Cryptologia, 2020, 44, 223-256.	0.5	4
10	Search space reduction of asynchrony immune cellular automata. Natural Computing, 2020, 19, 287-293.	3.0	1
11	Balanced crossover operators in Genetic Algorithms. Swarm and Evolutionary Computation, 2020, 54, 100646.	8.1	30
12	An Evolutionary View on Reversible Shift-Invariant Transformations. Lecture Notes in Computer Science, 2020, , 118-134.	1.3	4
13	Latin Hypercubes and Cellular Automata. Lecture Notes in Computer Science, 2020, , 139-151.	1.3	2
14	Cellular automata based S-boxes. Cryptography and Communications, 2019, 11, 41-62.	1.4	43
15	GSGP-C++ 2.0: A geometric semantic genetic programming framework. SoftwareX, 2019, 10, 100313.	2.6	8
16	Does constraining the search space of GA always help?. , 2019, , .		4
17	Hyper-bent Boolean Functions and Evolutionary Algorithms. Lecture Notes in Computer Science, 2019, , 262-277.	1.3	11
18	On the dynamical behaviour of linear higher-order cellular automata and its decidability. Information Sciences, 2019, 486, 73-87.	6.9	18

#	Article	IF	Citations
19	Decidability of Sensitivity and Equicontinuity for Linear Higher-Order Cellular Automata. Lecture Notes in Computer Science, 2019, , 95-107.	1.3	1
20	A cryptographic and coding-theoretic perspective on the global rules of cellular automata. Natural Computing, 2018, 17, 487-498.	3.0	7
21	Evolving Bent Quaternary Functions. , 2018, , .		7
22	Hidden Costs of Modelling Post-fire Plant Community Assembly Using Cellular Automata. Lecture Notes in Computer Science, 2018, , 68-79.	1.3	6
23	Cellular Automata Pseudo-Random Number Generators and Their Resistance to Asynchrony. Lecture Notes in Computer Science, 2018, , 428-437.	1.3	4
24	Pruning Techniques for Mixed Ensembles of Genetic Programming Models. Lecture Notes in Computer Science, 2018, , 52-67.	1.3	5
25	Evolutionary Search of Binary Orthogonal Arrays. Lecture Notes in Computer Science, 2018, , 121-133.	1.3	11
26	Inversion of Mutually Orthogonal Cellular Automata. Lecture Notes in Computer Science, 2018, , 364-376.	1.3	9
27	The Design of (Almost) Disjunct Matrices by Evolutionary Algorithms. Lecture Notes in Computer Science, 2018, , 152-163.	1.3	3
28	Evolutionary algorithms for the design of orthogonal latin squares based on cellular automata. , 2017, , .		17
29	Computing the periods of preimages in surjective cellular automata. Natural Computing, 2017, 16, 367-381.	3.0	9
30	Evolving S-boxes based on cellular automata with genetic programming. , 2017, , .		18
31	Design of S-boxes Defined with Cellular Automata Rules. , 2017, , .		28
32	The influence of population size in geometric semantic GP. Swarm and Evolutionary Computation, 2017, 32, 110-120.	8.1	9
33	Enumerating Orthogonal Latin Squares Generated by Bipermutive Cellular Automata. Lecture Notes in Computer Science, 2017, , 151-164.	1.3	8
34	The Firing Squad Synchronization Problem on Higher-Dimensional CA with Multiple Updating Cycles. , 2016, , .		3
35	Resilient Vectorial Functions and Cyclic Codes Arising from Cellular Automata. Lecture Notes in Computer Science, 2016, , 34-44.	1.3	1
36	Heuristic Search by Particle Swarm Optimization of Boolean Functions for Cryptographic Applications. , 2015, , .		27

#	Article	IF	Citations
37	A Genetic Algorithm for Evolving Plateaued Cryptographic Boolean Functions. Lecture Notes in Computer Science, 2015, , 33-45.	1.3	24
38	On the Periods of Spatially Periodic Preimages in Linear Bipermutive Cellular Automata. Lecture Notes in Computer Science, 2015, , 181-195.	1.3	3
39	The firing squad synchronization problem on CA with multiple updating cycles. Theoretical Computer Science, 2014, 559, 108-117.	0.9	6
40	Sharing Secrets by Computing Preimages of Bipermutive Cellular Automata. Lecture Notes in Computer Science, 2014, , 417-426.	1.3	8
41	m-Asynchronous cellular automata: from fairness to quasi-fairness. Natural Computing, 2013, 12, 561-572.	3.0	33
42	1-Resiliency of Bipermutive Cellular Automata Rules. Lecture Notes in Computer Science, 2013, , 110-123.	1.3	5
43	Asynchronous cellular automata and dynamical properties. Natural Computing, 2012, 11, 269-276.	3.0	21